

L9 ANSWER 12 OF 29 CAPLUS COPYRIGHT 2003 ACS on STN

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TITLE: Film-forming composition and film formation

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AB Film-forming compns. polymerizable with UV light or electron beams

comprise 1 part R_aZ1O₂CCR₁:CH₂ [R = C₄₋₂₀ perfluoroalkyl; Z = SO₂NR₂, CONR₂, CH₂CH₂SO₂NR₂, O-p-C₆H₄SO₂NR₂, O-p-C₆H₄CONR₂, CH₂CH₂SCH₂CH₂CONR₂, CH₂CH₂NR₂, CH₂CHMeNR₂, (CH₂)₃NR₂; R₁ = H, Me, halo; R₂ = H, C₁₋₁₂ alkyl, ether group-contg. alkyl; a = 0, 1; Z₁ = (CH₂)_n; n = 2-4], 4-10,000 parts hydrocarbyl acrylates, and 0.005-5% (per total compn.) oil-sol. F-contg. surfactants, giving films with good hardness and corrosion resistance.

Thus, a mixt. of C₈F₁₇SO₂NETCH₂CH₂O₂CCH:CH₂ (I) 0.050, N,N',N"-tris(2-hydroxyethyl)isocyanurate triacrylate 96.945, 3:7 C₈F₁₇SO₂NPrCH₂CH₂O₂CCH:CH₂-H₂C:CMeCO₂(CH₂)₁₅CHMe₂ copolymer (mol. wt.

4000) 0.005, and benzophenone 3.000 parts was coated on steel, dried, and cured in UV light to give a film with surface hardness >6H, contact angle 72.degree., and good corrosion resistance, vs. 3H, 42, and poor, resp., without I.

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